

# Advanced T-SQL Querying and Reporting: Building Effectiveness

May 14-16, 2012 • 9:00 AM – 5:00 PM  
230 West Monroe Street • Suite 550 • Chicago, IL 60606



## COURSE DESCRIPTION

This three-day course is a journey through the more advanced side of T-SQL, designed to help you create queries that are simply more effective. Microsoft MVP and author Rob Farley, visiting Chicago from Australia for a limited time, takes his students on a road trip of unlearning bad habits of querying and reporting, and into a deeper understanding of what makes a query effective. Common student feedback for this course includes “You’ve made me want to go back and rework every query I’ve ever written” and “I didn’t realize how much I didn’t understand about even the fundamental parts of T-SQL.”

Now it’s your turn to find out what your T-SQL has been missing. Come away with the knowledge necessary for writing queries that get the work done, and fast.

## WHO SHOULD ATTEND?

This course is designed for SQL Server professionals who already feel familiar with T-SQL and desire to move to the next level. Whether a student has been writing queries for six months or six years, this course will give them a clearer, better idea of what is going on behind the scenes of their queries. The T-SQL taught will be primarily for SQL Server 2012, but most of the principles taught will also apply equally to SQL Server 2005 and SQL Server 2008.



### Instructor: Rob Farley

Rob Farley runs LobsterPot Solutions, a Gold Partner SQL Server and BI consultancy in Adelaide, Australia. He is an MCT and has been a SQL Server MVP since 2006. Rob has helped create several of the MCP exams and is a Director of SQLPASS.

**VIEW THE FULL COURSE OUTLINE  
ON THE FOLLOWING PAGE**

## REGISTRATION

**\$1600.00\***

### To Register:

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Email: [kate@dataeducation.com](mailto:kate@dataeducation.com)  
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## AREA HOTELS

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## AREA RESTAURANTS

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**Bon Appétit**  
227 West Monroe St #14



## COURSE OUTLINE

### Advanced T-SQL Querying and Reporting: Building Effectiveness

#### Module 1: Query Execution

- **SELECT** statement components
- Execution plans
- Simplification of views and sub-queries
- Indexes
- SARGability and residuals
- Data modification

#### Module 2: Advanced T-SQL Features

- **Distinct vs. GROUP BY**
- Combining sets
- **JOIN** methods - logical and physical
- **APPLY**
- **CTEs**
- **PIVOT** and **UNPIVOT**
- **OVER** clause
- Ranking functions
- **LAG/LEAD**
- Analytic Functions
- **OUTPUT** clause
- Paging techniques

#### Module 3: Performance Considerations

- Indexes 2
- Hints
- Data types
- Full-text
- Cursors
- TVPs
- UDFs
- Client-based solutions
- Locking
- TempDB
- Memory management
- Dynamic SQL